Cloud AutoML Vision Object Detection

How-to Guides

Before you begin Set up your Google Cloud Platform project, authentication, and enable AutoML Vision Object Detection. (https://cloud.google.com/vision/automl/object-detection/docs/before-you-begin)

Preparing your training data

Learn best practices in organizing and annotating the images you will use to train your model. (https://cloud.google.com/vision/automl/object-detection/docs/prepare)

Formatting a training data CSV

Create a correctly formatted CSV file for the data set used to train your model. (https://cloud.google.com/vision/automl/object-detection/docs/csv-format)

Creating datasets and importing images Create the dataset and import the training data used to train your model. (https://cloud.google.com/vision/automl/object-detection/docs/create-datasets)

Annotating imported training images Add, delete, or modify bounding box and label annotations for imported training images. (https://cloud.google.com/vision/automl/object-detection/docs/label)

Training Cloud-hosted models Train your custom model and get the status of the training operation. (https://cloud.google.com/vision/automl/object-detection/docs/train) Training Edge (exportable) models Train your custom exportable Edge model and get the status of the training operation. (https://cloud.google.com/vision/automl/object-detection/docs/train-edge)

Evaluating models Review the performance of your model. (https://cloud.google.com/vision/automl/object-detection/docs/evaluate)

Deploying models Deploy your model for use after training completes. (https://cloud.google.com/vision/automl/object-detection/docs/deploy)

Making individual predictions

Use your custom model to annotate an individual prediction image with labels and bounding boxes online. (https://cloud.google.com/vision/automl/object-detection/docs/predict)

Making batch predictions

Use your custom model to annotate a batch of prediction images with labels and bounding boxes online. (https://cloud.google.com/vision/automl/object-detection/docs/predict-batch)

Exporting Edge models Export your different trained Edge model formats to Google Cloud Storage and for use on edge devices. (https://cloud.google.com/vision/automl/object-detection/docs/export-edge)

Undeploying models Undeploy your model after you are done using them to avoid further hosting charges. (https://cloud.google.com/vision/automl/object-detection/docs/undeploy) Managing datasets Manage datasets associated with your project. (https://cloud.google.com/vision/automl/object-detection/docs/datasets)

Managing models Manage your custom models. (https://cloud.google.com/vision/automl/object-detection/docs/models)

Base64 encode Use native "base64" utilities to encode a binary image into ASCII text data to send in an API request. (https://cloud.google.com/vision/automl/object-detection/docs/base64)

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